



Run-5 update

- ❑ Sectors warm-up
- ❑ RHIC beam set-up - blue
- ❑ Work during interruption

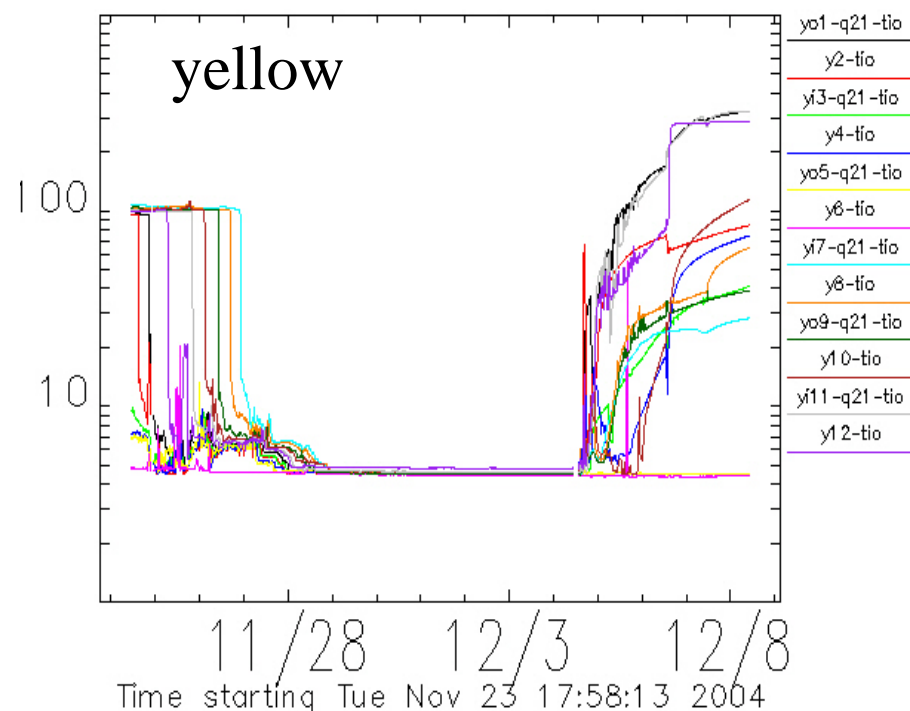
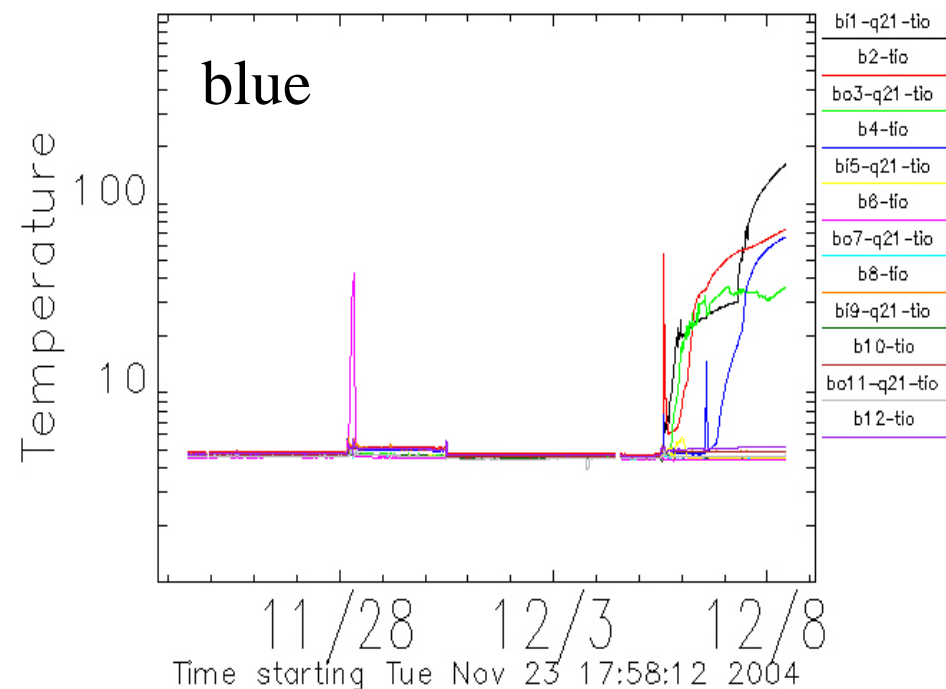


Warm-up plans, update

Sextant	Blue		Yellow		
	Magnet Line	Heat Shield	Magnet Line	Heat Shield	
6/7	Cooled	Cooled	Drift	Cooled	
4/5	Cooled	Cooled	Cooled	Cooled	
2/3	Drift	Cooled	Drift	Cooled	
12/1	Warm	Warm	Warm	Warm	
10/11	Cooled	Cooled	Warm	Warm	
8/9	Cooled	Cooled	Drift	Cooled	

Cooled- actively cooled by main refrigerator at normal operating temperature
 Drift - Not actively cooled or warmed however maintained at low pressure
 Warm- warmed to room temperature for repair

Still waiting to have the relevant sectors at room temperature (limitations of cryo system)
 Repair not started yet
 No firm estimate yet





Status Injectors

Injector in shut-down now

Re-start will be decided when RHIC schedule becomes more clear....

- ✓ Intensity
- ✓ Transverse emittance

Open issue:

Longitudinal emittance

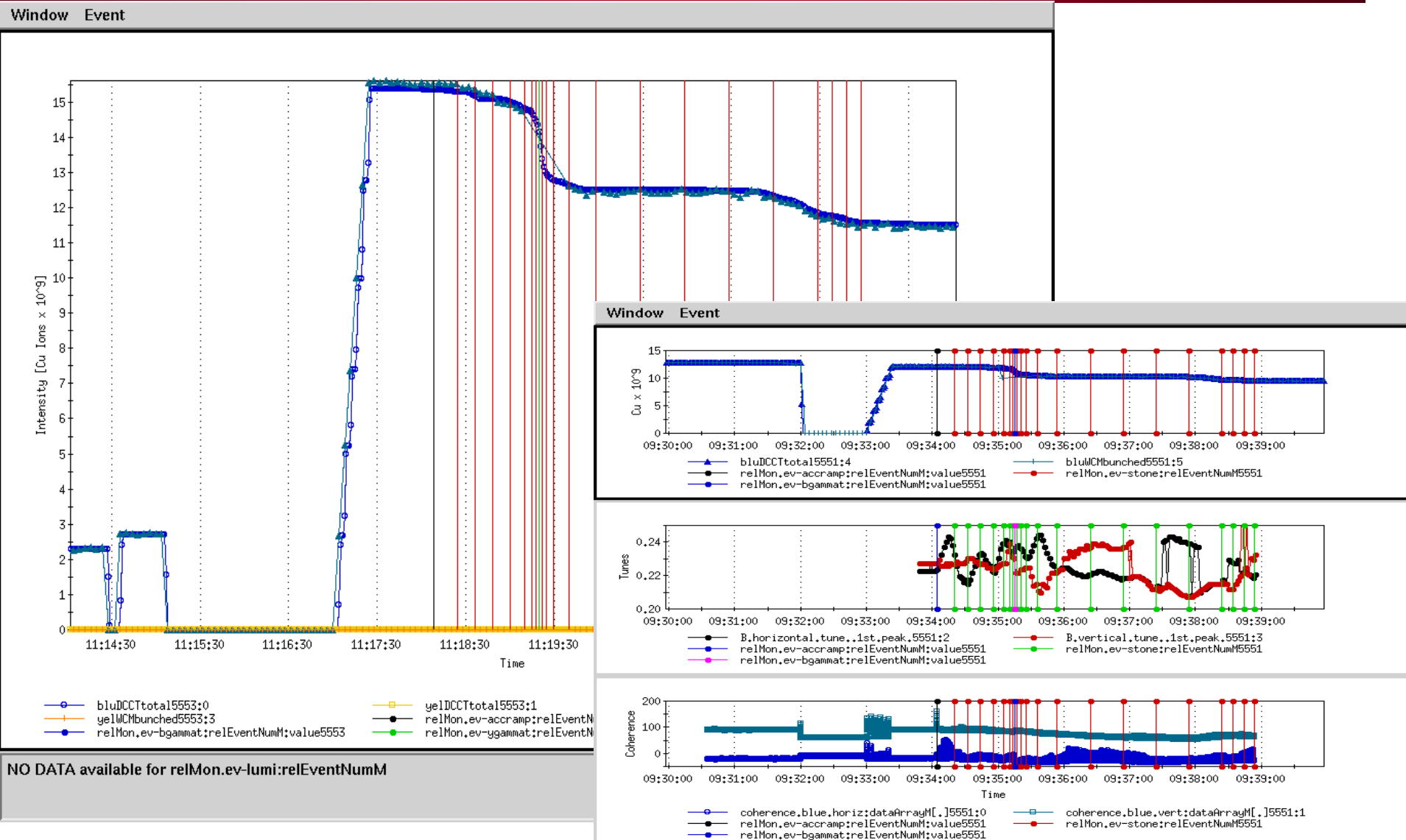


BLUE set-up with beam - highlights

- ❑ Reproducible, tuned **injection** (after debugging, tuning, etc.)
- ❑ **Instrumentation set-up** in blue
BPMS, TuneMeter, WCM, BLM, PLL, Schottky, coherence, IPM
- ❑ **RF** set-up
- ❑ Initial vacuum tests
commissioning of SkewMod, test orbit feed-back
- ❑ **Ramps: beam at store with initial tuning**
~ 80-90 % transmission at transition
Orbit, tunes, chromaticity, coupling at store

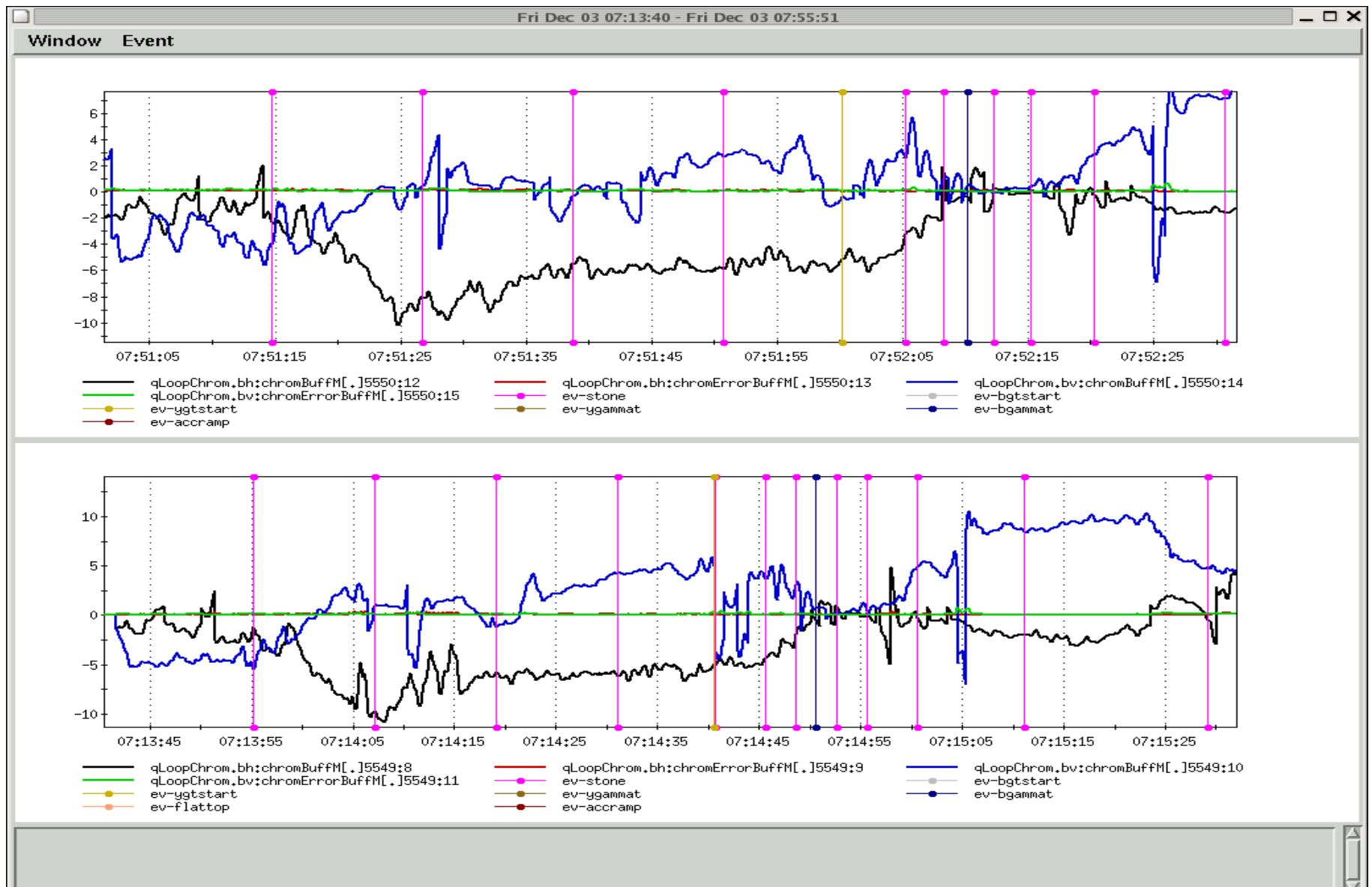


Ramps Friday Dec 3 owl & day



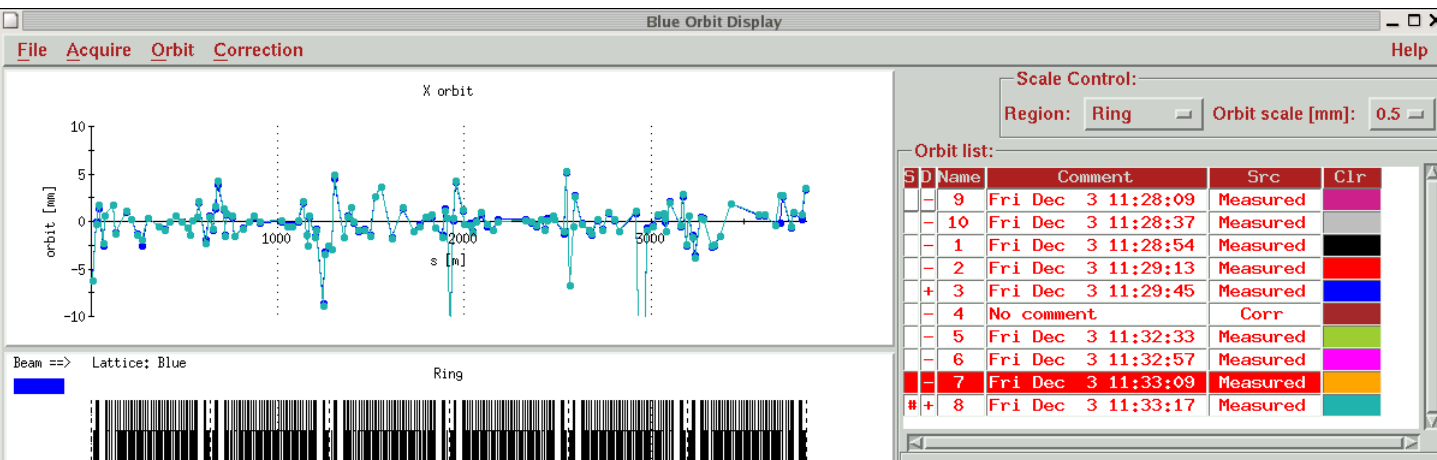


Ramp chromaticity





Blue store tune-up





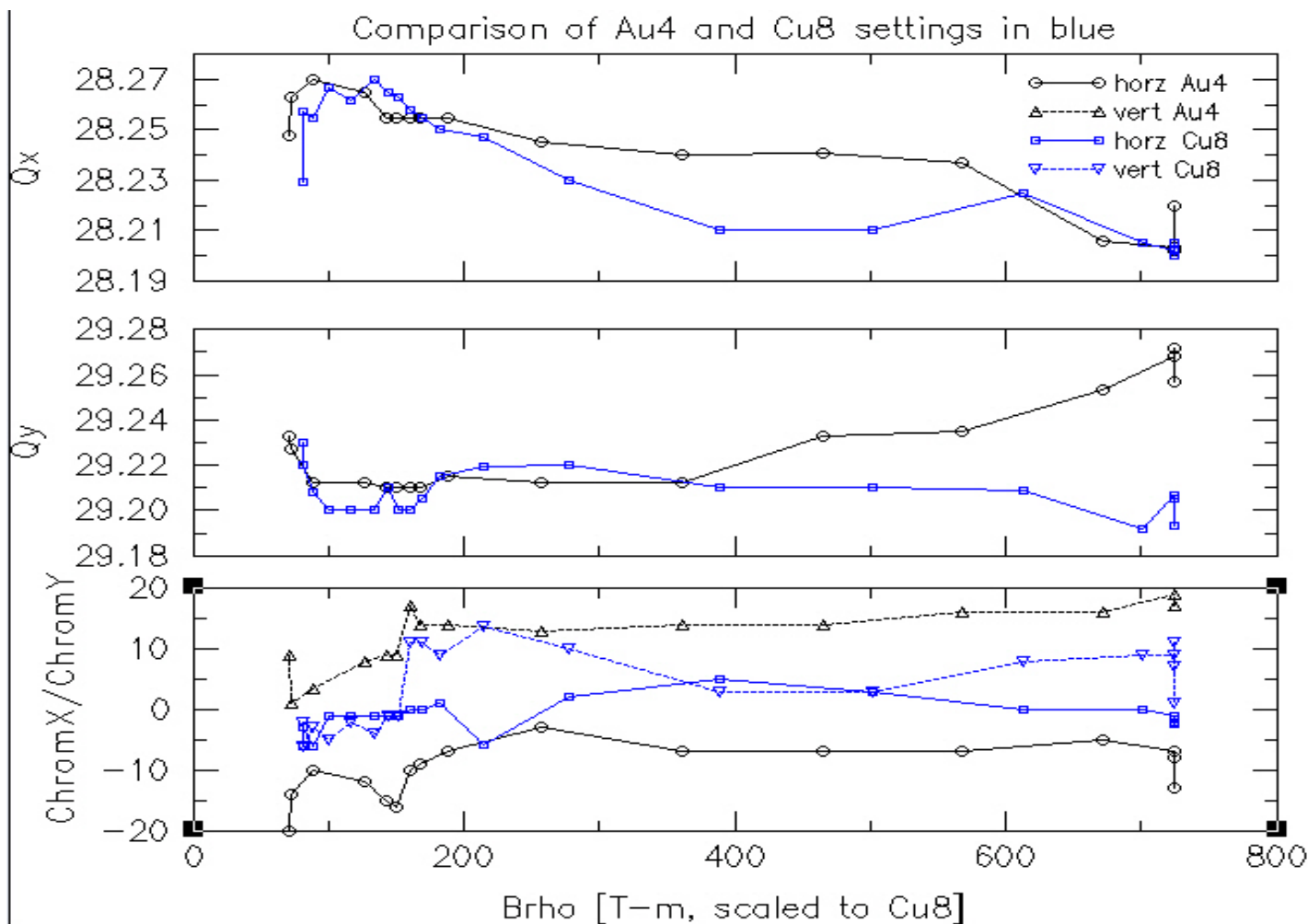
Run-5 activity during interruption

- ❑ PS repairs IR12, IR10
- ❑ Ramp analysis (Todd, Steve, Fulvia,....)
analysis blue ramp
→ yellow, get a good starting point
- ❑ Experiments magnets



Ramp analysis – 1

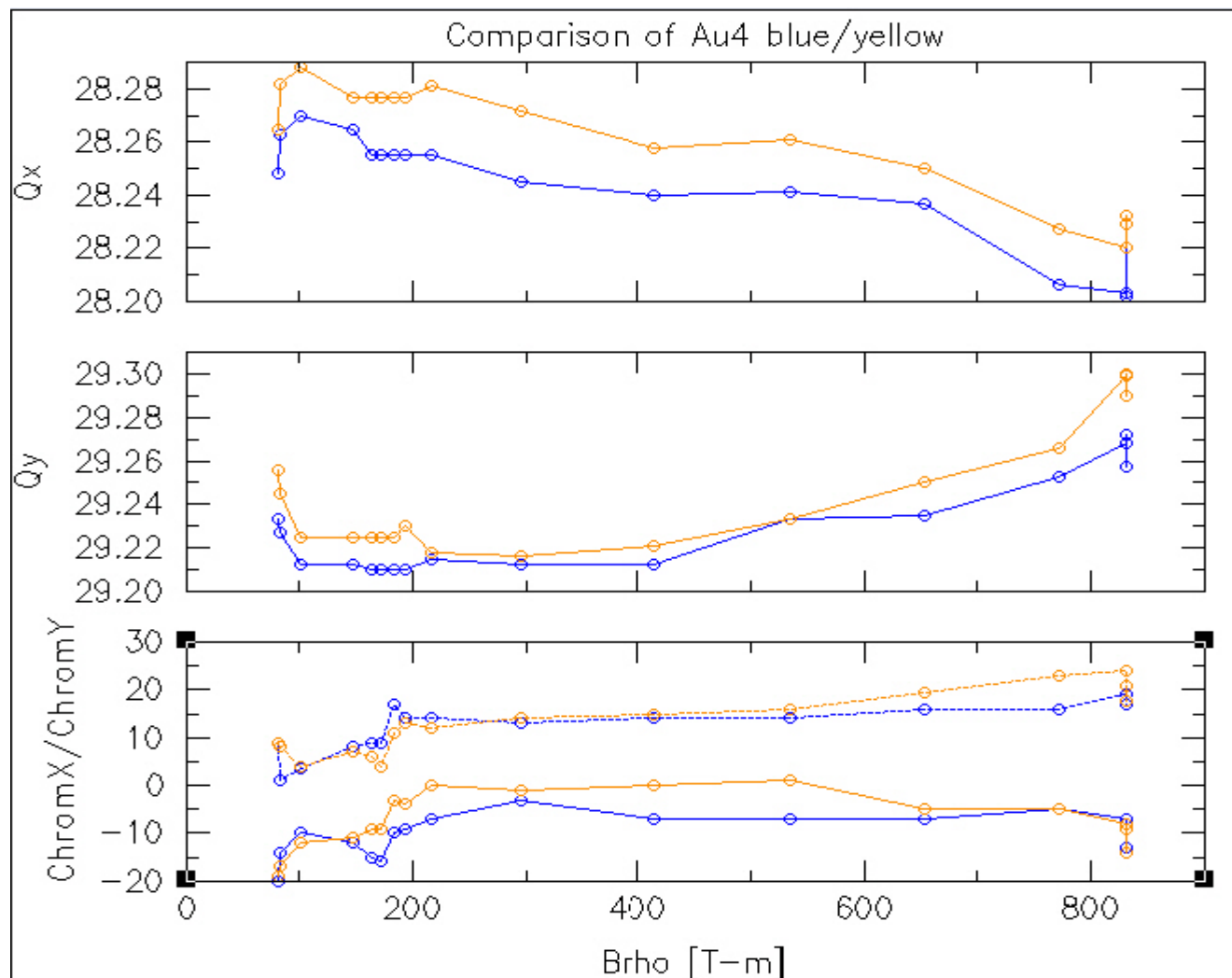
(Todd)



Better tune and chromaticity predictions by model this year



Ramp analysis - 2



Possible to use ramp information from blue for yellow start-up